Project	Development works to be under taken in wards around solidwaste disposal procesing units bellalli Hagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**17-07-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Agrahara Layout Main Road at Ch:95**	**Agrahara Layout Main Road at Ch:155**
Wt. of wet material from hole (Ww) gms.	5974	5987
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.19	98.56
% compaction required	98%	98%

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Consultant's Representative

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Project	Development works to be under taken in ward no.:[illegible] of BBMP around solidwaste disposal procesing units bellahli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**17-07-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Agrahara Layout Main Road at Ch:270**	**Agrahara Layout Main Road at Ch:340**
Wt. of wet material from hole (Ww) gms.	5983	5988
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.38	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.34	98.58
% compaction required	98%	98%

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Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	18-07-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 12

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Srinivasa Garden Layout 2nd Main Road	**Date of Sampling:**	17-07-2021
		Date of testing:	18-07-2021
Type of material & Purpose:	WMM	**Oven Dry Wt.(gms):**	10000.0

IS Sieve size in mm	**Weight retained**	**Cummulative weight retained (gm)**	**Cummulative % of retained**	**Cummulative % of passing**	**Specification limits**
53	0	0	0.00	100.00	100.00
45	377	377	3.77	96.23	95-100
22.4	2328	2705	27.05	72.95	60-80
11.2	2492	5197	51.97	48.03	40-60
4.75	1488.0	6685	66.85	33.15	25-40
2.36	790.0	7475	74.75	25.25	15-30
0.6	866.0	8341	83.41	16.59	8.0-22.0
0.075	990.0	9331	93.31	6.69	0-8
Pan	669.0	10000			
Total	10000.0				

Asst Executive Engineer
Project Division
Yelahanka Zone 92
BBMP, Bangalore

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Srinivasa Garden Layout 1st Main Road	**Date of Sampling**	**21-07-2021**
		Date of Testing	**22-07-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	625	83	522	75
16.0	12.5	1142	122	1012	118
12.5	10.0	790	65	745	65
10.0	6.3	625	56	565	42
Total		**3182**	**326**	**2844**	**300**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.25
Elongation Index(%):	10.55
Combined FI+EL (%)	20.79

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Consultant's Representative

Asst. Executive Engineer Project Division-2 BBMP Bangalore-92

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Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	22-07-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 10

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Noor Nagar Main Road	**Date of Sampling:**	21-07-2021
		Date of testing:	22-07-2021
Type of material & Purpose:	WMM	**Oven Dry Wt.(gms):**	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	382	382	3.82	96.18	95-100
22.4	2415	2797	27.97	72.03	60-80
11.2	2480	5277	52.77	47.23	40-60
4.75	1488.0	6765	67.65	32.35	25-40
2.36	795.0	7560	75.60	24.40	15-30
0.6	830.0	8390	83.90	16.10	8.0-22.0
0.075	995.0	9385	93.85	6.15	0-8
Pan	615.0	10000			
Total	10000.0				

Asst. Executive Engineer Project Division Yelahanka Zone-2 BBMP, Bangalore

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Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G. Narayana Swamy.
Date of Testing	:	23-07-2021
Type of Mix	:	WMM
Sample I/D	:	WMM 11

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	Srinivasa Garden Layout 1st Main Road	**Date of Sampling:**	22-07-2021
		Date of testing:	23-07-2021
Type of material & Purpose:	WMM	**Oven Dry Wt.(gms):**	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	392	392	3.92	96.08	95-100
22.4	2415	2807	28.07	71.93	60-80
11.2	2480	5287	52.87	47.13	40-60
4.75	1488.0	6775	67.75	32.25	25-40
2.36	795.0	7570	75.70	24.30	15-30
0.6	830.0	8400	84.00	16.00	8.0-22.0
0.075	995.0	9395	93.95	6.05	0-8
Pan	605.0	10000			
Total	10000.0				

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Consultant's Representative

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Asst. Executive Engineer
BBMP, Bangalore

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	**23-07-2021**
Sample Location	Srinivasa Garden Layout	**Date of Testing**	**24-07-2021**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	363.00	374.00	342.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	280.00	258.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	91.00	94.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.07	25.13	24.56	
5	Average Aggregate impact value	(%)	24.92			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	**Proposed Use**	**WMM**
Sample Location	Srinivasa Garden Layout 2nd Main Road	**Date of Sampling**	**23-07-2021**
		Date of Testing	**24-07-2021**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	610	82	522	75
16.0	12.5	1130	120	980	115
12.5	10.0	775	56	720	56
10.0	6.3	620	65	566	45
Total		**3135**	**323**	**2788**	**291**

Asst. Executive Engineer
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Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.30
Elongation Index(%):	10.44
Combined FI+EL (%)	20.74

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri.A G. Narayana Swamy.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	23-07-2021	
			Date of Testing	24-07-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	260	260	2.60	97.40	95 - 100
10.00 mm	4897	5157	51.57	48.43	25 - 55
4.75 mm	4344	9501	95.01	4.99	0 - 10
Pan	499	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

TEJUS CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete
Sample Location	Plant	**Date of Sampling**	23-07-2021
		Date of Testing	24-07-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	572	572	5.72	94.28	90-100
10.0	3342	3914	39.14	60.86	40-85
4.75	5420	9334	93.34	6.66	0-10
Pan	666	10000			

Asst. Executive Engineer
BBMP Bangalore Zone -92

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

TEJUS CONSULTANTS

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant/site**	**Date of Sampling**	23-07-2021
Period of Soaking	**24 hours**	**Date of Testing**	24-07-2021

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		662	640	670	
B	Weight of oven - dry sample gm.		653	632	662	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1678	1696	
E	Bulk specific gravity	B / (C + A - D)	2.665	2.667	2.659	**2.664**
G	Absorption (%)	(A - B) *100 / B	1.378	1.266	1.208	**1.284**

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Test Report on Cement

Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	24-07-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1.	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	

Remarks : ✓ Satisfactory / Not Satisfactory

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore -92

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Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A.G. Narayana Swamy.

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Materia	M sand		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	24-07-2021	
			Date of Testing	24-07-2021	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	230	230	7.67	92.33	90 - 100
2.36 mm	280	510	17.00	83.00	75 - 100
1.18 mm	512	1022	34.07	65.93	55 - 90
0.600 mm	546	1568	52.27	47.73	35 -59
0.300 mm	662	2230	74.33	25.67	8-30
0.150 mm	536	2766	92.20	7.80	0 - 10
Pan	234	3000			-

Remarks : Satisfactory / Not Satisfactory

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Project	Development works to be under taken in ward no-5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**27-07-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Agrahara Layout Main Road at Ch:505**	**Agrahara Layout Main Road at Ch:640**
Wt. of wet material from hole (Ww) gms.	5991	5978
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (ys)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (yb)=(Ww/w4*(ys))gm/cc	2.38	2.37
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.24	2.23
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.47	98.41
% compaction required	98%	98%

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

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Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**27-07-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Eshwara Condiments Side Road at Ch:65**	**Noor Nagar Main Road at Ch:85**
Wt. of wet material from hole (Ww) gms.	5969	5984
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.11	98.51
% compaction required	98%	98%

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**27-07-2021**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage	**Srinivasa Garden Layout 1st Main at Ch:185**	**Srinivasa Garden Layout 2nd Main at Ch:140**
Wt. of wet material from hole (Ww) gms.	5981	5992
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10595	10594
Wt. of sand in hole+ cone (w3) gms.	4405	4406
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3325	3326
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.38
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.24
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.31	98.64
% compaction required	98%	98%

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TEJUS CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal procesing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch:85 Agrahara Badavane Cross Road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	27-07-2021	03-08-2021	7 days	8.824	22500	449	19.96	20.10
2	27-07-2021	03-08-2021	7 days	8.832	22500	452	20.09	
3	27-07-2021	03-08-2021	7 days	8.870	22500	456	20.27	

Remarks : Satisfactory / Not Satisfactory

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TEJUS

Test Report on Compressive Strength of Concrete Cubes

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal processing unit bellalli bngaluru and kattigenalli , byatarayanapura constituency ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Noor Nagar 2nd Cross Road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	27-07-2021	03-08-2021	7 days	8.224	22500	452	20.09	20.30
2	27-07-2021	03-08-2021	7 days	8.324	22500	458	20.36	
3	27-07-2021	03-08-2021	7 days	8.420	22500	460	20.44	

Executive Engineer Project Division No.1 Bangalore-560 092

Asst

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	Concrete
Location/Source	At Plant	Date of Sampling	27-07-2021
Period of Soaking	24 hours	Date of Testing	28-07-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	638	656	674	
B	Weight of oven - dry sample gm.	628	648	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1676	1688	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.650	2.667	2.653	2.657
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.592	1.235	1.201	1.343

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G. Narayana Swamy.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	Plant	Date of Sampling	27-07-2021
		Date of Testing	28-07-2021

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	596	596	5.96	94.04	90-100
10.0	3364	3960	39.60	60.40	40-85
4.75	5492	9452	94.52	5.48	0-10
Pan	548	10000			

Asst. Executive Engineer
Project Division No. 92

Remarks : ✓ Satisfactory / Not Satisfactory

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